



C12 Energy

- C12 Energy seeks to sell 100% of its interests in the Hall Gurney Field in Russell County, Kansas
- Positive cash flow generating asset with 11 MMSTB CO₂ project potential

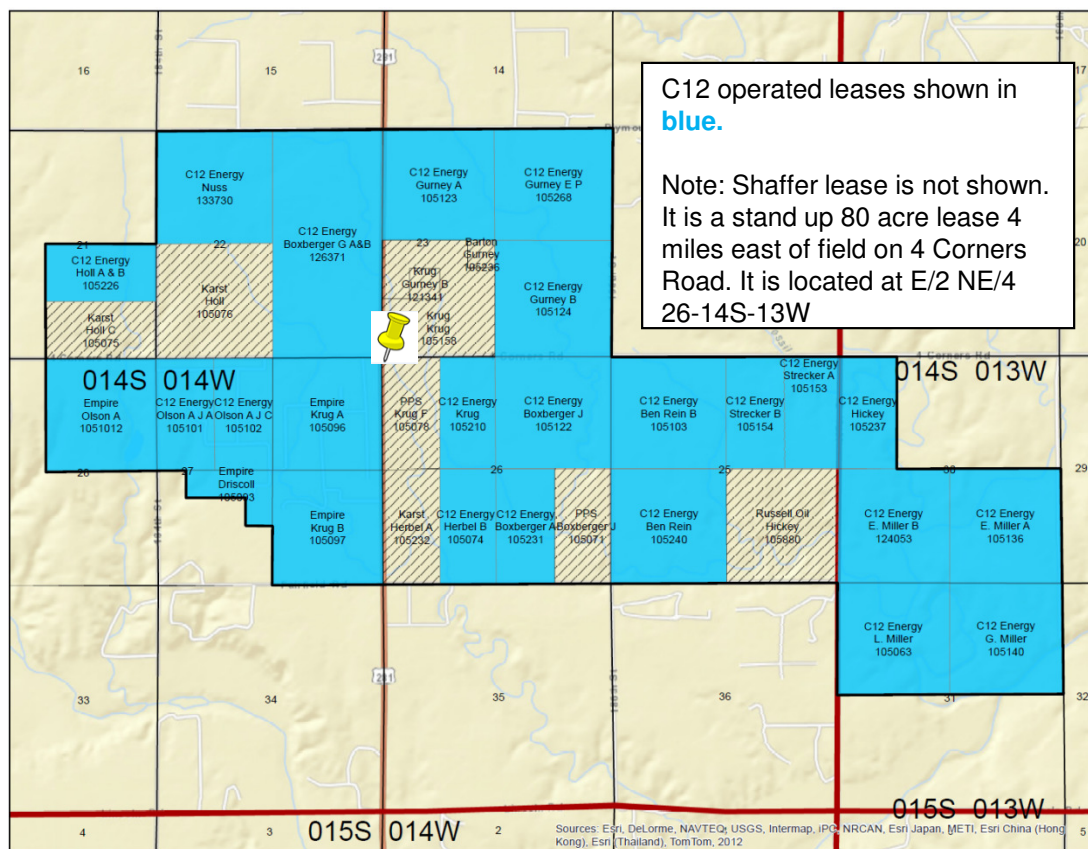
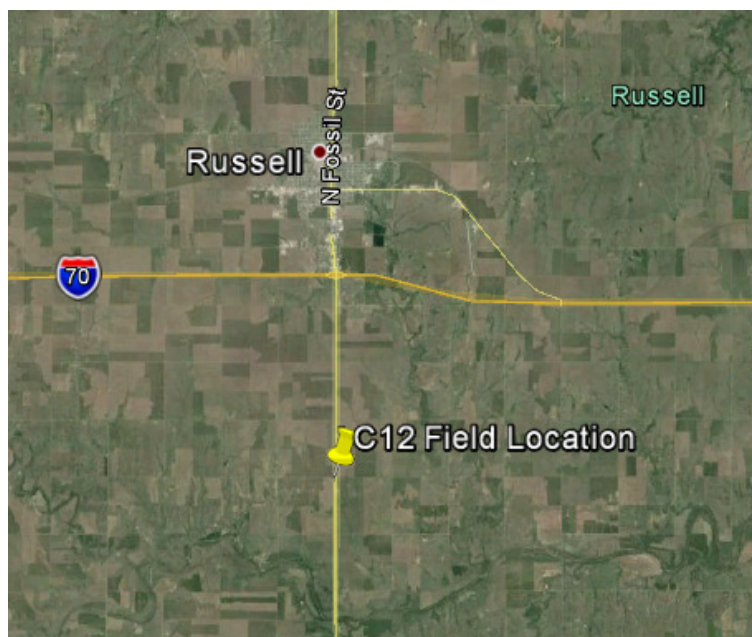
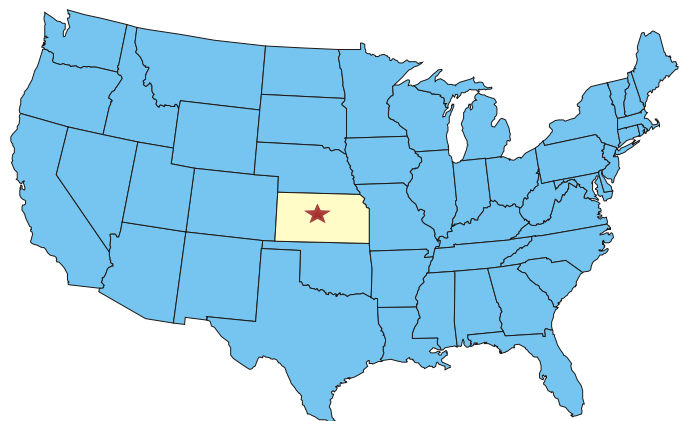


Overview of C12 Kansas Assets

- 100+ BOPD production capability (8/8ths)
- 26 leases in large Hall Gurney Field ; Acreage held by production
- Recovery to date: ~24.5 MMSTB; 44% of OOIP
- Stacked Pay
 - Lansing Kansas City, Tarkio, Gorham, Topeka, Toronto
- ~84% NRI and ~100% WI
- 128 wells:
 - 40 Producing
 - 32 Injection
 - 56 Shut-in for low oil prices (100% have been online in past year)
 - 0 Shut-in for mechanical integrity (low P&A liability)
- Identified improvement opportunities
 - Lower lease operating expense
 - Artificial lift optimization
 - Recomplete to horizons that have not been completed
 - Water flood optimization
 - CO2 EOR development



Field Location

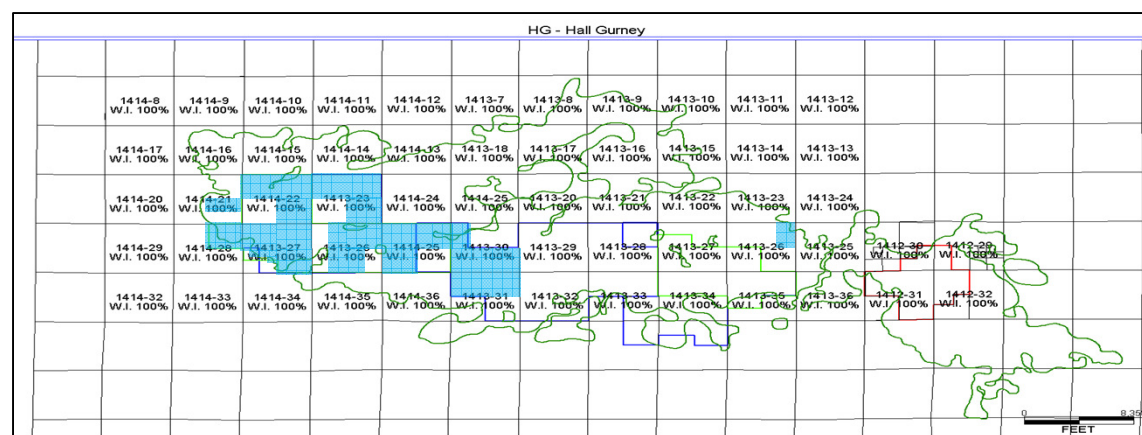




Hall Gurney Field Overview

- Discovered 1931
- Initial primary production from solution gas drive
- Waterflood began in 1950's
- 48,880 acres (total field)
- Recovery to date ~ 163 mmboe (49% of OOIP)
- OOIP of 335 million bbls (total field)
- 7000+ wells have been drilled into the Hall Gurney
- Produces principally from Lower Kansas City "C" & "G" Zones
 - Oomoldic limestone at 3,000 ft depth
 - LKC C Zone - $\sim 10 \pm 5$ ft thick, $\Phi_{avg} = 10\% \pm 12\%$ range 4%-30%, $K=0.001-600$ mD, $Sw_i = 0.11-1$
 - LKC G Zone - $\sim 25 \pm 10$ ft thick, $\Phi_{avg} = 12\% \pm 12\%$, $K=0.001-600$ mD, $Sw_i = 0.11-1$

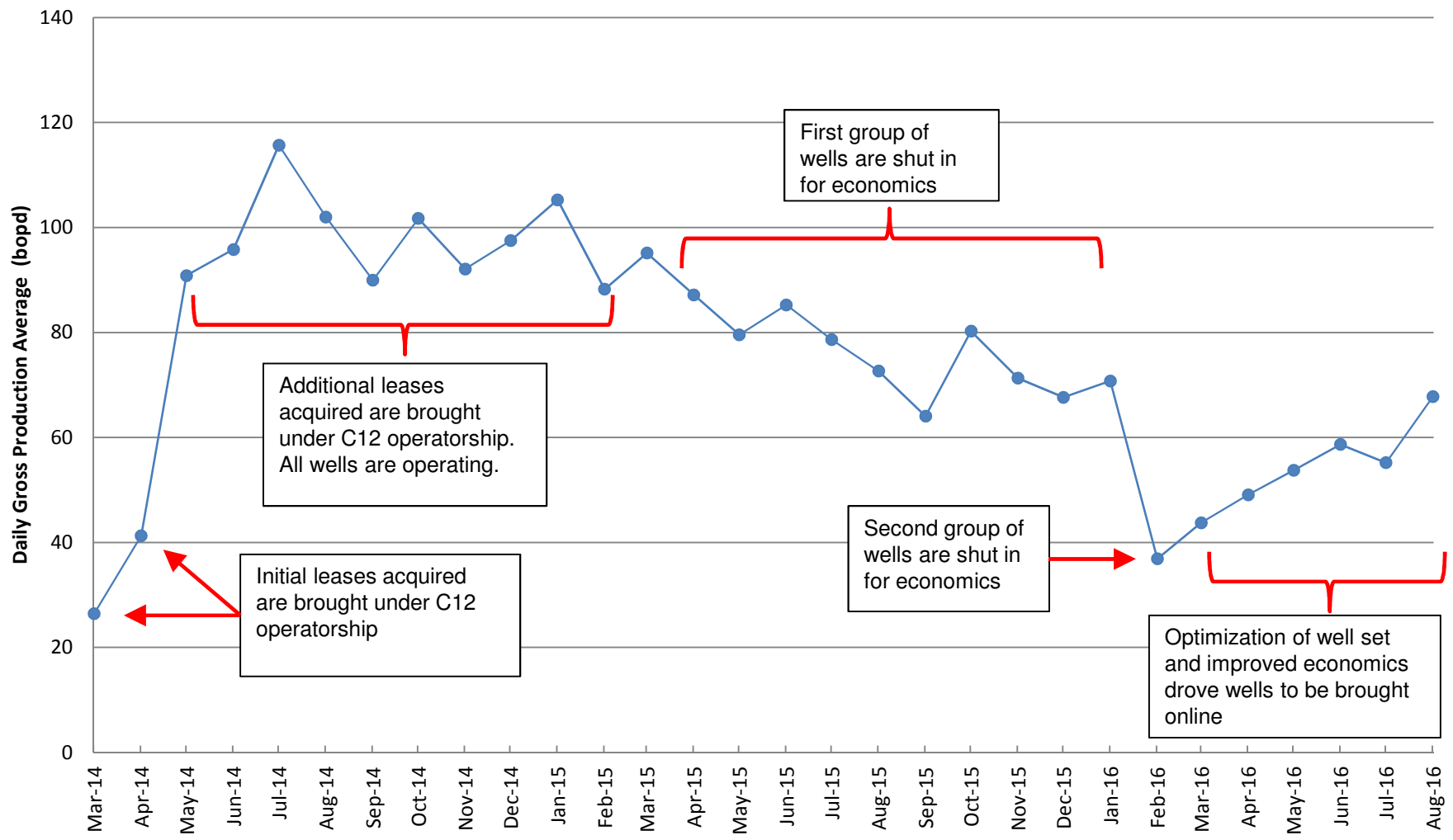
 = C12 operated lease





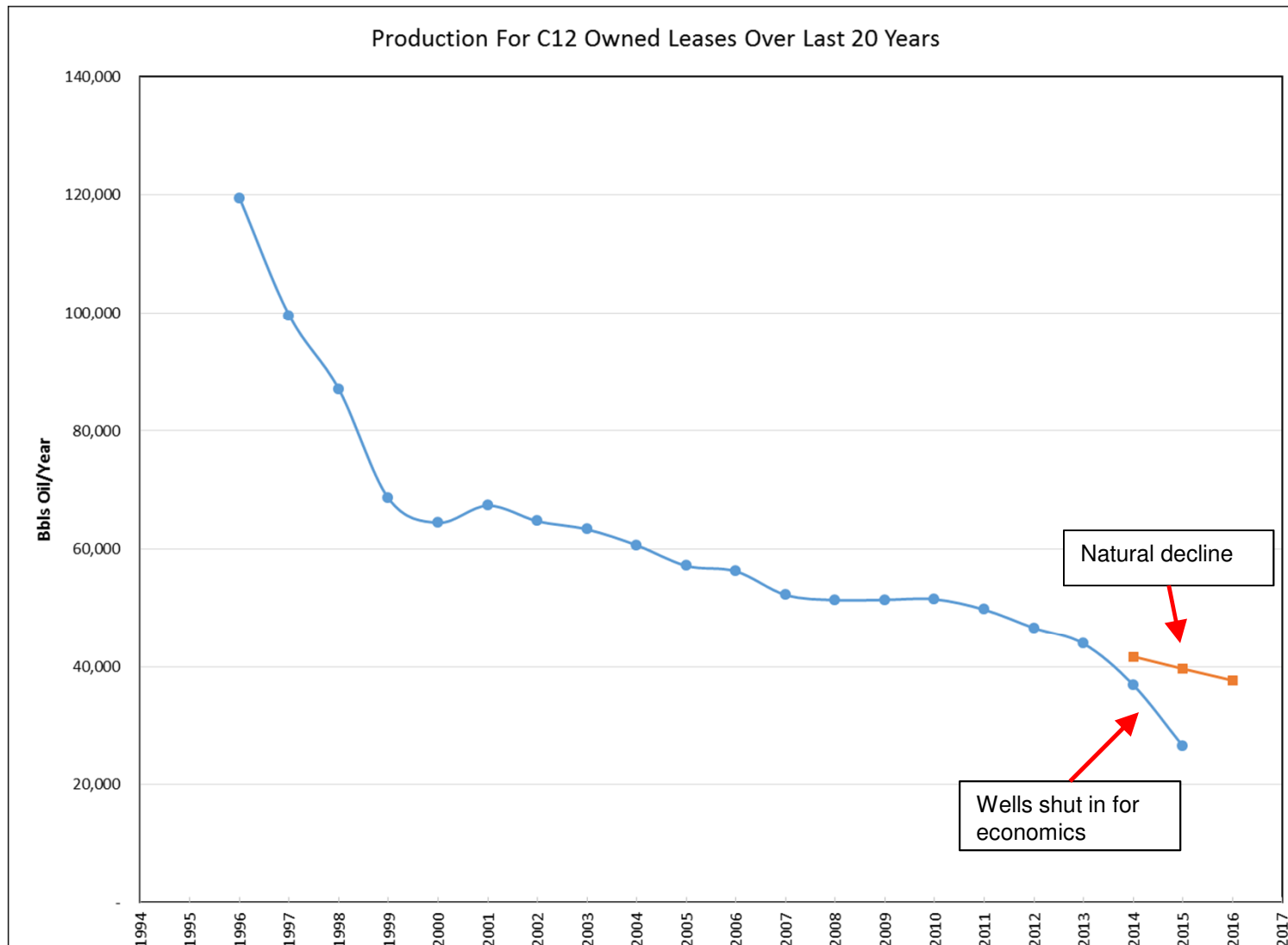
C12 Historical Monthly Gross Average Daily Production (8/8^{ths})

C12 Historical Monthly Gross Average Daily Production (8/8ths)





C12 Lease Historical Yearly Production

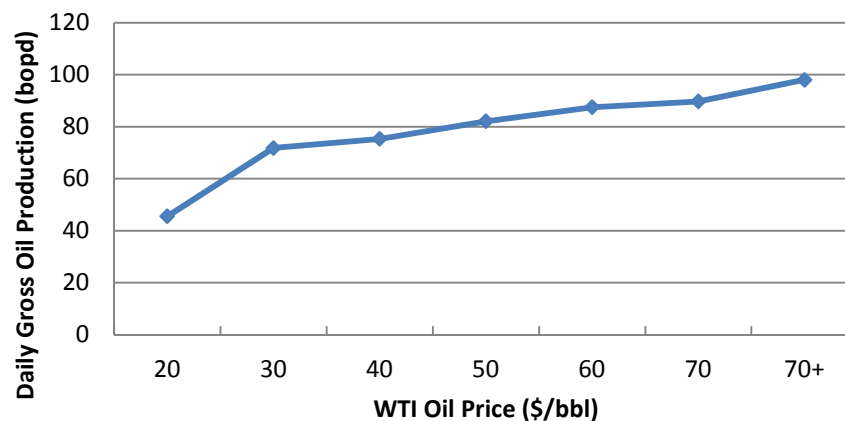




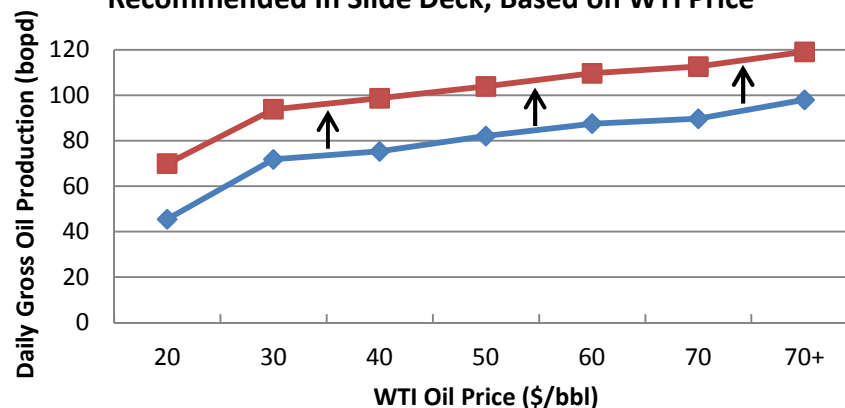
C12 Oil Production Pro Forma

- C12 Kansas well production is based on LOE and WTI spot price
 - ~48 wells are currently shut-in due to their individual economics at low oil price
 - Improvement in WTI price will allow for more wells to be brought online, increasing production and reducing LOE/bbl costs
- Chart on right shows how production will react to WTI price based on historical C12 LOE
 - Current improvements being made on LOE will shift more production to being economic at lower WTI prices
- Oil is produced to tank batteries on leases and trucked offsite when the tank is full
 - Oil marketer is Coffeyville Resources

C12 Kansas Potential Production Based on WTI Price



C12 Kansas Potential Production, With Improvements Recommended In Slide Deck, Based on WTI Price

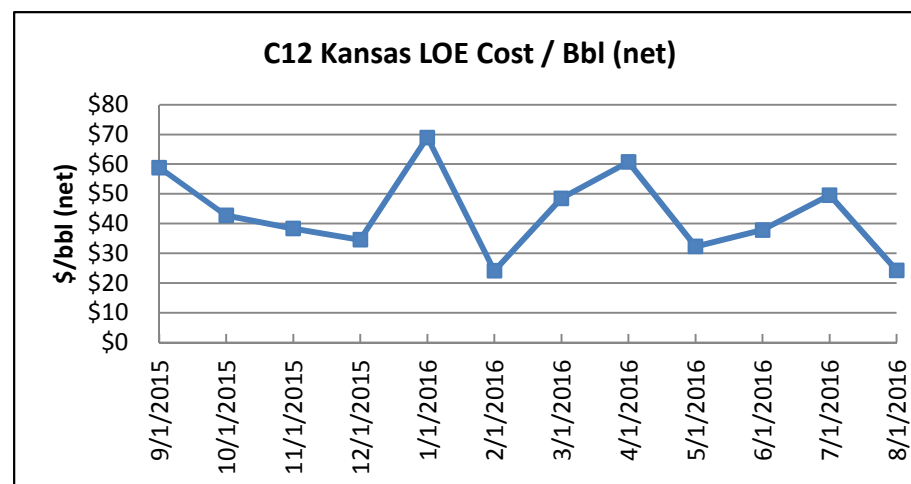
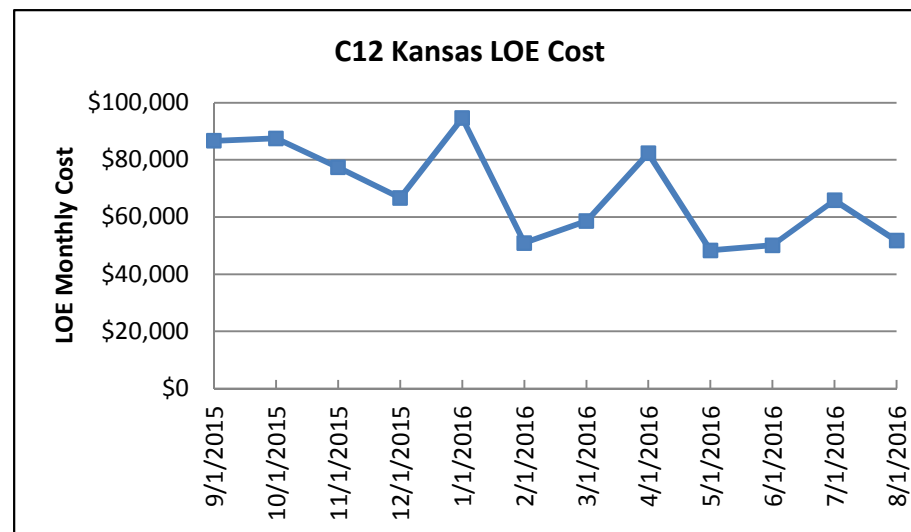




Lease Operating Expense

In 3Q 2015, C12 reduced LOE by:

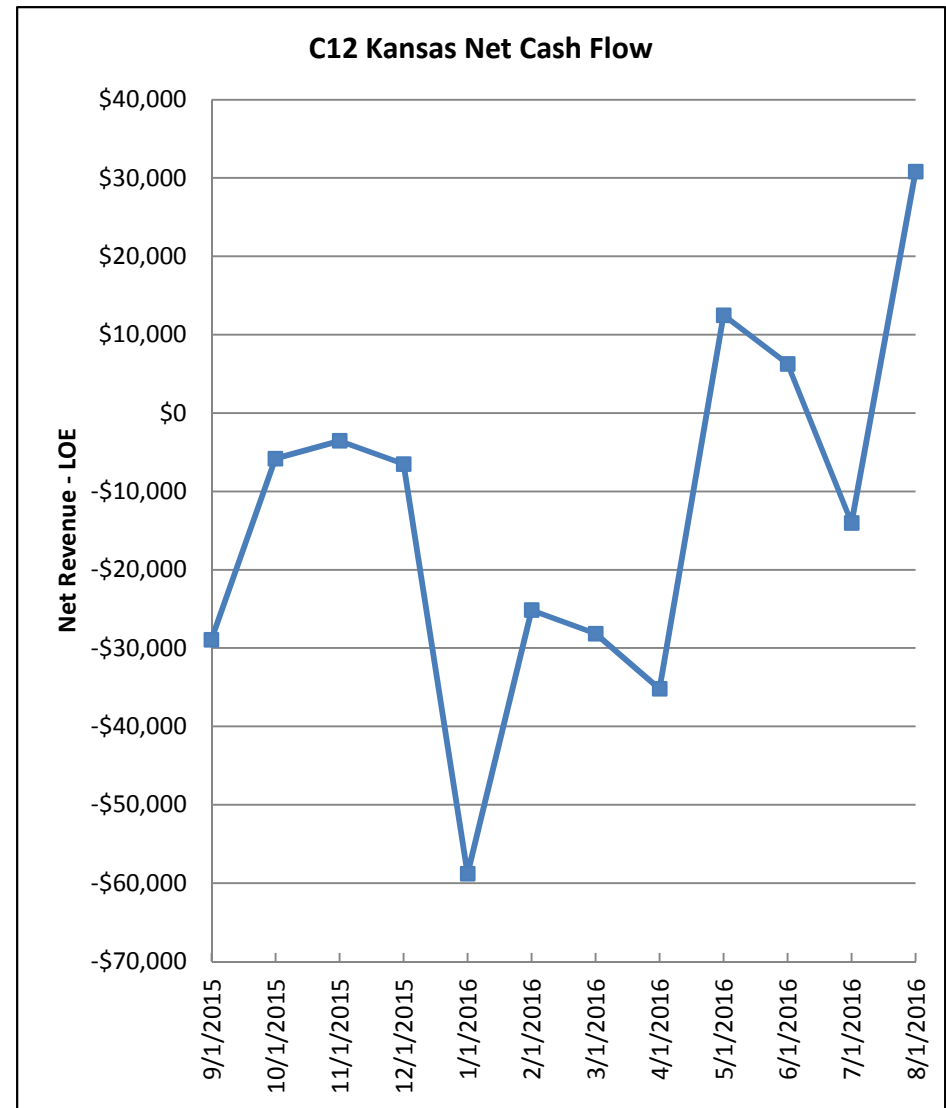
- Reduced staff head count
 - Utilize local part-time help and contract pumping when needed
- Renegotiated contracts >\$2000
- Moved to single chemical vendor
- Shut-in uneconomic wells, reducing chemical and utility costs
- Investments
 - Fixing things right the 'first time'; reduce repeat failures
 - ID addl. opportunities to reduce LOE ~ **15%**





C12 Kansas Cash Flow

- In 3Q 2015, focus became maximizing cash flow, not total production
- Ensuring the right well set is online based upon individual well economics
 - Utilities and chemical costs have come down drastically while maintaining production
 - Have continued to optimize individual well operating costs
- Focus on optimizing wells over past year
 - Re-sheaving
 - Upsizing/downsizing pumps
 - TA'ing uneconomic wells
 - Optimizing rod designs to lengthen life of well between workovers
- Projected cash flow will increase with continued LOE reduction projects and development





Cash Flow Improvement Opportunities

- **Convert Gurney A2 to injector (~2 bopd)**
 - Gurney A & EP leases do not have water injection system
 - Water must be hauled for disposal
 - Application for conversion approved Aug '16
 - Expected cost \$15,000
 - Already have pump, pump house, flow lines
 - Expected LOE savings from eliminate water hauling ~ \$2000/month
 - Addl. 2 bopd (addl. \$2000+/month income)
 - Payback in ~**4 months**
- **Re-complete Boxberger A #2 (~4 bopd)**
 - Well is offset (660') from ~14 bopd Boxberger J#1
 - Boxberger J#1 has no decline over last 25 years and produces at ~ 14 bopd
 - Expected production post re-completion is 4 bopd
 - Payback in ~ **1 year**
- **Acidize (+6 bopd)**
 - Numerous wells not stimulated in decades
 - A review of wells indicates ~23 wells are acidizing candidates
 - Acid job cost = \$1600/well
 - Expected boost in production = 25%/well or 6 bopd total
 - Payback is ~ **5 months**
- **Open up additional horizons available in current wellbores (+7 bopd)**
 - Many wells have not been completed in all of their available horizons
 - Completing Topeka, Tarkio, and Lower LKC to the Crown Krug #4
 - Estimated benefit of 4.5 bopd and a payback of 5 months
 - Add perfs in the lower LKC in the Empire Krug A #6
 - Estimated benefit of 1.4 bopd and a payback of 1 month
 - Add perfs in upper LKC in the Empire Krug A #8
 - Estimated benefit of 1 bopd and a payback of 1 month



CO2 EOR Development Potential

Hall Gurney Post Rock Unit

Development Plan

- Obtain development approval of Hall Gurney Post Rock Unit owners:
 - Total Unit ~4200 acre; C12 acreage ~ 3320 acres
- Re-pressure reservoir to ~1200 psi (miscibility pressure ~ 1150 psi)
- Build 8 mile 4" CO2 pipeline transporting CO2 from Ethanol Plant in Russell, KS
 - CO2 Supply contracted w/ White Energy, 7.5 mmcf/d
 - Build CO2 capture facility at Ethanol Plant
- Build Central Processing Facility for fluid processing & recycle compression
 - FEED studies and some final engineering completed
- Install new field flowlines; workover wells as needed to implement CO2 EOR flood
- Full Field geomodel in Petrel; simulation models built in sectors, history matched.

Reserves	11 MMSTB (17% RF)
IRR	+30% at \$70/bbl WTI
NPV	\$70 MM at \$70/bbl WTI
Development Cost	84 MM (gross)



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